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PTO/SB/08a (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10565024
	Filing Date		2004-09-30
	First Named Inventor	Liu et al.	
	Art Unit	1751	
	Examiner Name	TBA	
	Attorney Docket Number	10256.204-US	

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				Filing Date	September 30, 2004
				First Named Inventor	Liu et al
				Art Unit	TBA
				Examiner Name	TBA
Sheet	1	of	3	Attorney Docket Number	10256.204-US

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AK		6,488,718	12-02-2002		
		6,608,024	08-19-2003		
		5,512,203	04-30-1996		
		4,810,414	03-07-1989		
		6,184,010	02-06-2001		
		5,968,813	10-19-1999		
		6,123,739	09-26-2000		
		5,447,537	09-05-1999		
		5,298,584	03-29-1994		
		5,221,285	06-23-1993		
		4,975,209	12-04-1990		
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		4,820,307	04-11-1989		

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V		WO 99/10589	03-04-1999			
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		First Named Inventor	Liu et al
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AK ↓		Choi et al., Journal of Applied Polymer Science, Vol. 55, pages 375-382 (1995)	
		Choi et al., Textile Research Journal, Vol. 62, Part 10, pages 614-618 (1992)	
		Yang et al., Textile Research Journal, Vol. 70, Part 2, pages 143-147 (2000)	
		Yang et al., Textile Research Journal, Vol. 69, Part 10, pages 782-789 (1999)	
		Clark M. Welch, Textile Research Journal, Vol. 58, Part 8, pages 480-486 (1988)	
		Abhyankar et al., Textile Research Journal, Vol. 55 Part 7, pages 444-448 (1985)	
		Shin et al., Textile Research Journal, Vol. 59, pages 635-642, (1989)	
		Pierce et al., Textile Research Journal, pages 420-428 (1976)	
		Vail et al., Textile Research Journal, pages 336-344 (1971)	
		Blanchard et al., Agricultural Research Service, pages 1 (1998)	

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AK		Lickfield et al., National Textile Center Annual Report, pages COO-CO1 1-8 (2000)	
AK		Lickfield et al., <a href="http://www.ntcresearch.org/current/year10/Projects/C00-C01.htm">http://www.ntcresearch.org/current/year10/Projects/C00-C01.htm</a>	
AK		Gu et al., Textile Research Journal, Vol. 70, Part 1, pages 64-70 (2000)	

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